

The Levitating Shoe

P-3 (d-drawings)

Claims

The embodiments of the invention in which an exclusive property or privilege is claimed, are as follows.

1 - A manually operable shoe for creating levitating effect comprising.

A - A modified (reconstructed) shoe for the wearers foot, providing a comfortable shoe base for the wearer.

2 - An air line attached to an air cylinder comprising.

A - A rounded outward moving shaft with attached rounded, flat platform, configured to provide upward lifting motion to a maximum height depending on amount of air pressure provided.

3 - A shoe as defined in claim two in which the air cylinder, necessitates the required amount of air pressure (depending on the wearers weight) to become activated, pressurizing the cylinder chamber

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allowing the cylinder shaft and platform to extend out and downwards from the outside bottom of the shoe heel to the ground lifting the shoe (shoe wearer).

4 - A means by which the air pressure can be controlled manually by the wearer operating a hand held pneumatic valve, connected to three air pressure lines comprising.

A - The main air supply line originating from the air supply tank and connecting to the hand held pneumatic valve.

B - The shoe line extending from the hand held pneumatic valve down the pant leg to the shoe heel cylinder.

C - The waste (exhaust) line extending from the hand held pneumatic valve up the arm sleeve and over the back of the wearer.

5 - So as stated in claim three where in, as the cylinder becomes pressurized the rising of the Levitating Shoe solely depends on the cylinder shaft

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and platform extending outwards and downwards from the inside and bottom of the shoe heel (cylinder) to the ground and pushing against the ground providing rise (external levitation) to the wearer (d2), by maneuvering the button on the three way hand held pneumatic valve downwardly the wearer can redirect (exit) the air pressure from the shoe line to the waste (exhaust) line and descend to the ground.

A - Where as cited in (US 5655315) The inside of shoe comprises a removable, soft but relatively thin foot pad to accommodate the wearers foot and is located above the base portion (sole) and above the inflatable means being an air filled bladder supplied with air by an air pump with a finger actuated plunger and one way check valve which along with the air passage way is recessed within the heel.

B - Where as cited in (US 5655315) The air bladder is inflated internally through the air passage way by the air pump which comprises a one way check valve

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when closed holds the air in the bladder, allowing the wearer to rise and gain height within the shoe.

C - Where as cited in (US 5655315) For the air pressure in the air pump to be released the wearer must grasp the shoe by hand to open the check valve, with light pressure being put back on the shoe while in the standing position the air pressure is slowly released deflating the air bladder inside the shoe allowing the wearer to regain normal position.

6 - So as stated in claim one, three and five where in, the re-construction of the Levitating Shoe heel provides an air supplied cylinder attached to the inside of the shoe heel comprising an extending shaft and platform that with the proper amount of air pressure extends outwards and downwards from the bottom of the shoe heel to the ground with the cylinder shaft platform pushing against the ground forcing the shoe (shoe wearer) in an upwardly direction providing the rise (levitation) required (d2), accordingly for the

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wearer to descend (lower) back to the ground, requires deactivation of the air pressure line and activation of the waste (exhaust) line simultaneously, by maneuvering the button on the three way hand held pneumatic valve to the downward position bleeds the shoe line air pressure into the waste (exhaust) line resulting in the cylinder shaft and platform relinquishing its position back into the cylinder (heel) allowing for the wearers decent.

A - Where as cited in (US 4873774) Is a re-constructed shoe structure providing a shoe sole which includes pneumatic or hydraulic chambers built into the forwarding part of the shoe consisting of cleat plates which act as pistons within the chambers with attached and protruding downward cleats and springs.

B - Where as cited in (US 4873774) Pressure tubing connecting to and originating from a remotely located (on the waist) pump with a valve in closed position, supplies pneumatic or hydraulic pressure to the space

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between the top of the cleat plates and inside chamber top wall, forcing the cleat plates downwards against the springs thus repositioning the cleats to an extended position protruding somewhat from the outside bottom of the shoe providing the wearer to walk fairly safely and comfortably on unsafe surfaces which include ice, snow or other.

C - Where as cited in (US 4873774) The valve on the pump must first be opened to bleed off the air in the top of the cleat chambers allowing the springs between the bottom of each chamber and cleat plate to force the cleat plates and the cleats upwardly to a normal retracted position back inside the shoe sole.

7 - So as stated in claim four where in, The Levitating Shoe when completely assembled and to sustain sufficient operation requires the use of a pre set air supply tank, hand held manually operated three way pneumatic valve and three main air lines which are securely fitted (connected) to all in and out valve ports

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using tubing clamps to prevent leakage, (d3,4).

A - Where as cited in (US 4873774) Shows a manually controlled air pump with a valve and two air lines.

B - Where as cited in (US5655315) Shows an air inflating bladder, air pump and air line (air passage way).

8 - So as stated in claim one where in, the reconstruction of the Levitating Shoe implies the addition of a metal support mounting plate secured to the inside bottom of the shoe sole and which also includes the complete removal of the original shoe heel bottom replaced with a larger custom fitted hollowed out heel to accommodate for attachment and mounting of the shoe cylinder to the metal support mounting plate using the cylinder mounting bolt, (d1).

A - Where as cited in (US 5655315) Shows internally adapting and reconstructing (not removing or replacing shoe parts) of an original shoe for the attachment of a foot pad an air pressure line, air pump and bladder.

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B - Where as cited in (US 4873774) Shows internally adapting and re-constructing, adding sole and heel portions to accommodate the chambers, chamber cleat plates with attached cleats and springs.

9 -So as stated in claim one and eight where in, to accommodate the appropriate secure support of the wearers foot, and as part of the re-construction of The Levitating Shoe, a metal foot support plate is also attached to the inside bottom of the shoe rising slightly, beginning at the toe and rising (one half inch) up to the back of the heel secured just above the cylinder mounting bolt at that point, (d1 fig-15).

10 - A shoe in which all relating amenities when assembled provide the wearer with real lifting effect.